

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (Rev. 2-32)  <b>Information Disclosure Statement by Applicant</b>  (Use several sheets if necessary)	ATTY. DOCKET NO. UPAP-0495	SERIAL NO 09/980,762
	APPLICANT D. Weiner et al.	
	FILING DATE September 3, 2002	GROUP 1644

## U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
JO	4,722,848	02/02/88	Paoletti et al.			
	4,736,866	04/12/88	Leder et al			
	4,873,191	10/10/89	Wagner et al.			
	4,945,050	01/31/90	Sanford et al.			
	5,017,487	05/21/91	Stunnenberg et al.			
	5,036,006	07/30/91	Sanford et al.			
	5,077,044	12/31/91	Stocker			
	5,110,587	05/05/92	Paoletti et al.			
	5,112,749	05/12/92	Brey, III et al.			
	5,174,993	12/29/92	Paoletti			
	5,223,424	06/29/93	Cochran et al.			
	5,225,336	07/06/93	Paoletti et al.			
	5,240,703	08/31/93	Cochran			
	5,242,829	09/07/93	Panicali et al.			
	5,294,441	03/15/94	Curtiss			
	5,294,548	03/15/94	Curtiss			
	5,310,668	05/10/94	Ellis et al.			
	5,387,744	02/07/95	Curtiss III et al.			
	5,389,368	02/14/95	Curtiss III			
	5,424,065	06/13/95	Curtiss III et al.			
	5,451,499	09/19/95	Cochran			
	5,453,364	09/26/95	Paoletti			
	5,462,734	10/31/95	Leitchworth III et al.			
	5,470,734	11/28/95	Sondermeijer et al.			
	5,482,713	01/09/96	Paoletti			
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	5,593,972	01/14/97	Weiner et al.			
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	5,830,876	11/03/98	Weiner et al.			
	5,837,533	11/17/98	Boutin			
JO	5,942,607	08/24/99	Freeman et al.			

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Examiner <i>Ilia Ouspenski</i>	Date Considered 4/4/2006
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## FOREIGN PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Country	Class	Sub Class	Translation YES   NO
JO	90/11092	10/04/90	WO			
	94/16737	08/04/94	WO			
	93/17706	09/16/93	WO			
	96/10038	04/04/96	WO			
	95/26718	10/12/95	WO			
	93/23552	11/25/93	WO			

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

	1.	International search report for PCT/US88/11310 dated October 17, 2000.
	2.	Selvakumar et al., "Genomic Organization and Chromosomal Location of the Human Gene Encoding The B-Lymphocyte Activation Antigen B7," <u>PubMed</u> , 1992, abstract only.
	3.	Lanier et al., "CD80 (B7) and CD86 (B70) Provide Similar Costimulatory Signals for T Cell Proliferation, Cytokine Production, and Generation of CTL," <u>PubMed</u> , 1995, abstract only.
	4.	Azuma et al., "B70 Antigen is a Second Ligand for CTLA-4 and CD28," <u>Nature</u> , November 8, 1993, Vol. 366, pp. 76-79.
	5.	Freeman et al., "Structure, Expression, and T Cell Costimulatory Activity of the Murine Homolog of the Human B Lymphocyte Activation Antigen B7," <u>J. Exp. Med.</u> , September 1991, Vol. 174, pp. 625-631.
	6.	Freeman et al., "A New Member of the Ig Superfamily with Unique Expression on Activated and Neoplastic B Cells," <u>The Journal of Immunology</u> , July 11, 1989, Vol. 143, pp. 2714-2722.
	7.	Howell et al., "Limited T-Cell Receptor $\beta$ -Chain Heterogeneity Among Interleukin 2 Receptor-Positive Synovial T Cells Suggests a Role for Superantigen in Rheumatoid Arthritis," <u>Proc. Natl. Acad. Sci.</u> , December 1991, Vol. 88, pp. 10921-10925.
	8.	Kim et al., "Engineering of In Vivo Immune Responses to DNA Immunization Via Codelivery of Costimulatory Molecule Genes," <u>Nature Biotechnology</u> , July 15, 1997, Vol. 15, pp. 641-646.
	9.	Oksenberg et al., "Limited Heterogeneity of Rearranged T-Cell Receptor V $\alpha$ Transcripts in Brains of Multiple Sclerosis Patients," <u>Letters to Nature</u> , May 24, 1990, Vol. 345, pp. 344-346.
	10.	Paliard et al., "Evidence for the Effects of a Superantigen in Rheumatoid Arthritis," <u>Science</u> , July 19, 1991, Vol. 253, pp. 325-329.
	11.	Linsley et al., "Human B7-1 (CD80) and B7-2 (CD86) Bind with Similar Avidities but Distinct Kinetics to CD28 and CTLA-4 Receptors," <u>PubMed</u> , December 1994, Vol. 1, No. 9, abstract only
	12.	W. Williams, "Restricted Heterogeneity of T Cell Receptor Transcripts in Rheumatoid Synovium," <u>J. Clin. Invest.</u> , August 1992, Vol. 90, pp. 326-333.
	13.	Chaudhary et al., "A Rapid Method of Cloning Functional Variable-Region Antibody Genes in <i>Escherichia Coli</i> as Single-Chain Immunotoxins," <u>Proc. Natl. Acad. Sci.</u> , February 1990, Vol. 87, pp. 1066-1070
JO	14.	K. Wucherpfennig, et al., "Shared Human T Cell Receptor V $\beta$ Usage to Immunodominant Regions Of Myelin Basic Protein," <u>Science</u> , 1990, Vol. 248, pp. 1016-1019.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1

of

2

**Complete if Known**

Application Number	09/980,762
Filing Date	September 3, 2002
First Named Inventor	David B. Weiner
Art Unit	Not Yet Determined - 1644
Examiner Name	Not Yet Determined J. Duszewski
Attorney Docket Number	UPAP0013-100

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
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**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>4</sup> - Number <sup>5</sup> - Kind Code <sup>6</sup> (if known)				
JO		WO 96/11279	04/18/96	The Government of the United States of America		
JO		WO 96/40915	12/19/96	Dana-Farber Cancer Institute		
JO		WO 95/03408	02/02/95	Dana-Farber Cancer Institute		

Examiner  
Signature

J. Duszewski

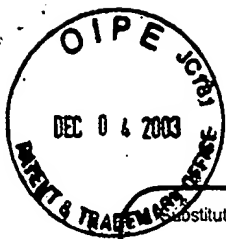
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Sheet 2 of 2

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First Named Inventor	David B. Weiner
Group Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	UPAP0013-100

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
IO		<del>European Search Report dated June 18, 2003, Application No. 00926416</del>	
		Gerstmayer et al., "Costimulation of T-cell Proliferation by a Chimeric B7-Antibody Fusion Protein," <u>Cancer Immunol Immunother</u> , Vol. 45, Nos. 3-4, pp. 156-158 (1997).	
		Fargeas et al., "Identification of Residues in the V Domain of CD80 (B7-1) Implicated in Functional Interactions with CD28 and CTLA4," <u>Journal of Experimental Medicine</u> , September 1, 1995, Tokyo, JP, vol. 182, pages 667-675.	
		Peach et al., "Both Extracellular Immunoglobulin-like Domains of CD80 Contain Residues Critical for Binding T-Cell Surface Receptors CTLA-4 and CD28" <u>Journal of Biological Chemistry</u> , American Society of Biological Chemists, September 8, 1995, Baltimore, MD, vol. 270, No. 36, page 1182, line 1-10, page 21185-21188	
IO		Inobe et al., "Identification of an Alternatively Spliced Form of the Murine Homologue of B7," <u>Biochemical and Biophysical Research Communications</u> , Academic Press Inc., April 15, 1994, Orlando, FL, vol. 200, no. 1, page 446.	

Examiner Signature	<i>Lina Ouspesshi</i>	Date Considered	4/4/2006
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